

3. Extent of the Application

This specification is applied to SANYO Lithium Ion Battery of NCR18650B

For special applications in which quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or cause threat of personal injury such as for weapon, aircraft and aerospace equipment, aircraft electronics equipment, medical equipment (a part of class 2 equipment, class 3 or more equipment), or cause large-scale system troubles, explosion-proof equipment, electric vehicle, hybrid electric vehicle, and electric motor cycle (except electric power-assisted bicycle), this specification shall not be applied.

4. Battery Classification and Type

- 4.1 Battery Classification SANYO Lithium Ion Battery
4.2 Battery Type NCR18650B

5. Nominal Specifications

Items	Specifications	Notes
5.1 Rated Capacity (Minimum)	3200 mAh	0.64A discharge at 20°C
5.2 Nominal Capacity (Minimum)	3250 mAh	0.65A discharge at 25°C
5.3 Nominal Capacity (Typical)	3350 mAh	Reference only
5.4 Nominal Voltage	3.6V	0.65A discharge at 25°C
5.5 Discharging End Voltage	2.5V	
5.6 Charging Current (Std.)	1.625A	
5.7 Charging Voltage	4.20 ± 0.03V	
5.8 Charging Time (Std.)	4.0 hours	
5.9 Continuous Discharging Current (Max.) ^{※1}	4.875A	0 ~ +45°C
5.10 Internal Resistance	less than 48mΩ	AC Impedance 1 kHz
5.11 Weight	less than 47.5g	
5.12 Operating Temperature	Charge	0 ~ +45°C
	Discharge	-20 ~ +60°C
5.13 Storing Conditions	less than 1 month	-20 ~ +50°C
	less than 3 months	-20 ~ +40°C
	less than 1 year	-20 ~ +20°C
		Percentage of recoverable capacity 80% ^{※2}

※1 The maximum discharge current for a single cell use. However after the battery pack assembly, there will be a limitation of maximum discharge current due to a protection circuit or a protection device.

※2 Percentage of recoverable capacity

= (Discharging time after storage / Initial discharging time) × 100

The discharging time is measured by the discharge current of 0.65A until 2.5V of end voltage after the battery is fully charged at 25°C.

File No

NCR18650-089

Energy Company, SANYO Electric Co., Ltd.
Lithium-Ion Battery Business Unit
Battery System Management Department